

Title (en)  
MAGNETO-INDUCTIVE FLOWMETER

Title (de)  
MAGNETISCH-INDUKTIVES DURCHFLUSSMESSGERÄT

Title (fr)  
DEBITMETRE A INDUCTION MAGNETIQUE

Publication  
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Application  
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Abstract (en)  
[origin: WO2007045540A1] The invention relates to a magneto-inductive flowmeter (1) consisting of a measuring tube (2) in which a medium (11) flows through substantially in the direction of the measuring tube axis (3) and comprising a magnetic device (6, 7) producing an alternating magnetic field, which is introduced into the measuring tube (2) and passes in a substantially vertical direction with respect to the axis (3) of the measuring tube which is provided with two measuring electrodes (4, 5) positioned in a connecting line substantially vertical with respect to the measuring tube axis (3) and to the magnetic field and an adjusting and evaluating unit (8) which determines the volume or mass flowrate of the medium (11) running through the measuring tube (2) according to a measuring voltage captured at the measuring electrodes (4, 5). In order to rapidly detecting the flowmeter (1) failure, the adjusting and evaluating unit (8) determines the actual adjusting time required for obtaining a stable measuring mode of the flowmeter (1), afterwards compares the actual adjustment time with a reference adjustment time predetermined for the flowmeter (1) in such a way that the stable measuring mode thereof is attained and generates a failure message when the actual adjustment time exceeds the predetermined reference adjustment time.

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